

Patent Application No.: 10/516,300
Attorney Docket No. BROO3001/ESS

AMENDMENTS TO THE SPECIFICATION:

Amend page 5, the third paragraph to read:

--Average current density (if determinable, anodically or cathodically): 0.01 to 20A/cm², preferably ~~0.1 to 0.1 to 20A/cm²~~, more preferably 1 to 10A/cm²

Duty Cycle 5 to 100%

Frequency: 0 to 100Hz

Electrolyte solution temperature: -20 to 85 °C

Electrolyte solution circulation/agitation rates: ≤10 liter per min per cm² anode or cathode area (0.001 to 10 l/min.cm²)

Work piece temperature: -20 to 45 °C

Anode oscillation rate: 0 to 350 oscillations/min

Anode versus cathode linear speed: 0 to 200 meter/min (brush) 0.003 to 0.16m/min (drum)--.

Amend page 14, the top paragraph to read:

--Cathodic t_{on}/t_{off}/ Anodic t_{on} (t_{anodic}): 16msec/0msec/2msec

Frequency: 55.5Hz

Cathodic duty cycle: 89%

Anodic duty cycle: 11%

Deposition time: 1 hour

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Deposition Rate: 0.8mm/hr

Electrolyte temperature: 60°C

Electrolyte circulation rate: ~~0.15liter/min/cm²-cathode area (no pump flow; agitation)~~0.15 liter per minute and per cm² cathode area--.

Amend page 17, the first paragraph to read:

--Deposition time: 1 hour

Deposition Rate: 0.05 mm/hr

Electrolyte temperature: 65°C

Electrolyte circulation rate: ~~0.15litre/min/cm²-cathode area (no pump flow; agitation)~~0.15 liter per minute and per cm² cathode area--.

Amend page 18, the second paragraph to read:

--Anode/anode area: conforming soluble anode (Ni rounds in a metal cage)/undetermined

Cathode/cathode area: submersed Ti drum/appr. 600cm²

Cathode: rotating at 0.018 rpm (or 120cm/hour) Anode: fixed

Anode versus cathode linear speed: 120cm/hour

Average cathodic current density: 0.07A/cm²

t_{on}/t_{off}. 2msec/2msec

Frequency: 250Hz

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Duty Cycle: 50%

Production run time: 1 day

Deposition Rate: 0.075 mm/hr

Electrolyte temperature: 60°C

Electrolyte circulation rate: ~~0.15 liter/min/cm² cathode area~~0.15 liter per minute and per cm²
cathode area--.